

ABSTRACT OF THE DISCLOSURE

A method of casting parts with gray iron includes the steps of providing molten gray iron metal with controlled carbon, silicon, phosphorous, sulfur, manganese and chromium content; alloying said molten gray iron metal, prior to pouring, with tin to a total tin content of about 0.05% to about 0.10%; inoculating said molten tin-alloyed gray iron metal, prior to pouring, with a gray iron inoculant to an additional silicon addition of from about 0.10% to about 0.12%; and casting the gray iron part from said molten, tin-alloyed inoculated gray iron metal as soon as possible after said inoculation.